

ABSTRACT

A positive electrode active material and a non-aqueous electrolyte cell which uses the positive electrode active material. The cell has a high discharge voltage without lowering the capacity and superior charging/discharging characteristics. To this end, the positive electrode active material contains a compound represented by the general formula $\text{Li}_x\text{Mn}_y\text{Fe}_{1-y}\text{PO}_4$, wherein $0 < x \leq 2$ and $0.5 < y < 0.95$, or a compound represented by the general formula $\text{Li}_x\text{Mn}_y\text{A}_{1-y}\text{PO}_4$, where $0 < x \leq 2$ and $0 < y < 1$ and wherein A is a metal element selected from among Ti, Zn, Mg and Co or plural metal elements selected from among Ti, Fe, Zn, Mg and Co.

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